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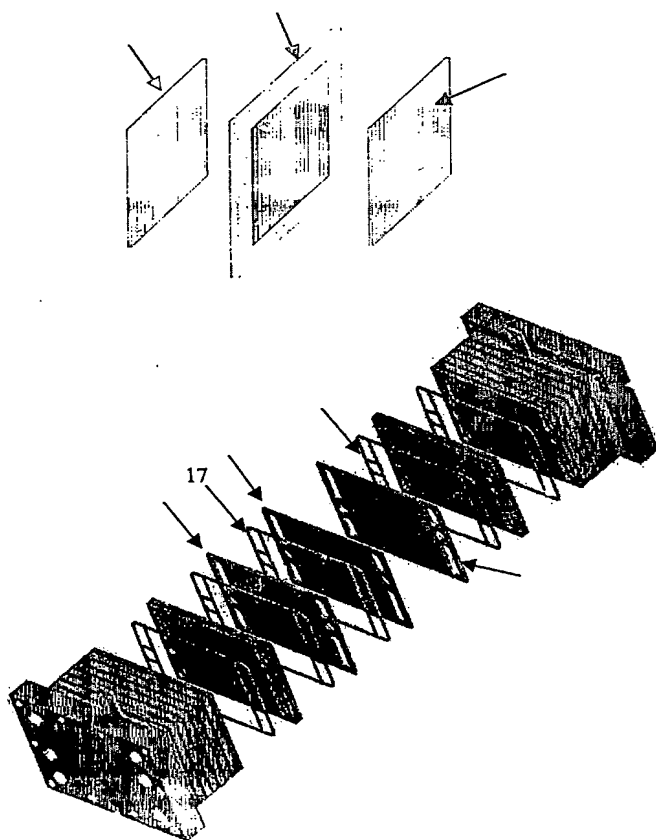
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(54) Title: INTEGRATED ELECTRICALLY CONDUCTIVE ELECTROCHEMICAL CELL COMPONENT



(57) Abstract: An electrically conductive electrochemical cell component is disclosed. The cell component includes a first coolant plate and an adjacent plate, wherein the adjacent plate is a second coolant plate or a bipolar plate. The first coolant plate has at least one mating region, preferably a rib, for mating with a complementary region, preferably a groove, on the adjacent plate. The first coolant plate and the adjacent plate are each made of a polymer and conductive filler blend. The first coolant plate is joined to the adjacent plate by a seal formed by the polymer at the mating region and the complementary region. The seal is created using vibrational or resistive welding processes.

WO 2004/086541 A2



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